



Semantic MediaWiki

Current Status and Next Steps

Karsten Hoffmeyer, October 5, 2017



SMWCon Fall 2017

October 4 to 6, Rotterdam



Semantic MediaWiki

Current Status and Next Steps

- Status of the SMW project
- New features in SMW 2.5
- What you can expect in SMW 3.0?
- How you can contribute?

Status of the SMW project

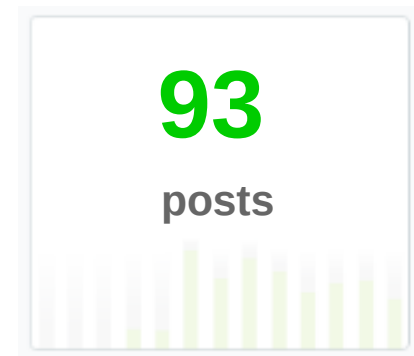
→ Community and Users

Statistics – Mailing lists activity

September 2015 –
August 2016

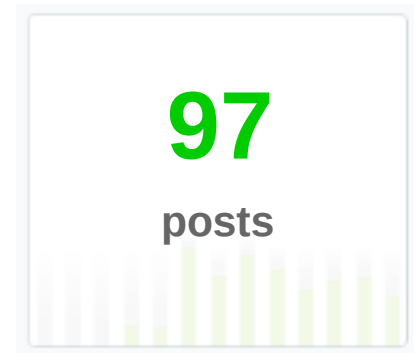
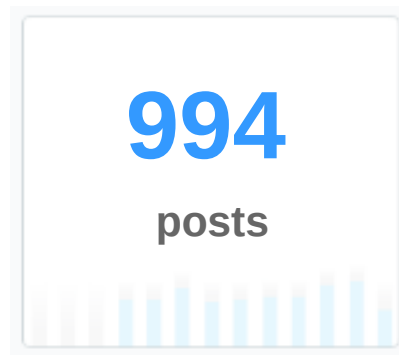


user



developer

September 2016 –
August 2017



Source: <https://sourceforge.net>

Statistics – Wiki activity

September 2015 –
August 2016

~ **5,500**

edits



~ **1,300**

new pages



September 2016 –
August 2017

~ **8,000**

edits



~ **1,800**

new pages



Sources: <https://www.semantic-mediawiki.org>

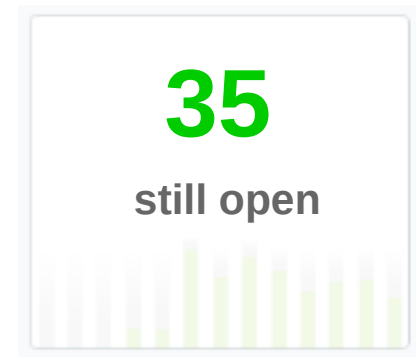
Current Status and Next Steps

Evolution of Semantic-MediaWiki.org

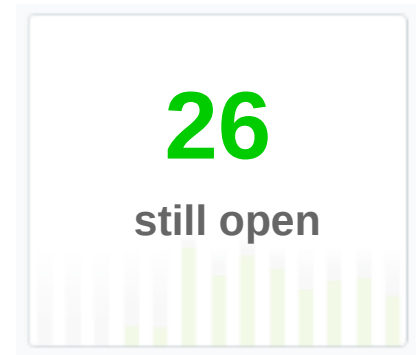
- Improvement of documentation
 - Less overwhelming in size and information for easier overview
 - More annotations and queries for easier display and exploration
 - Integration with the “Translate” extension for general information pages
- Improvement of look and feel
 - Going Chameleon for mobile usage and better user guidance
 - Slightly adapted color scheme for modern view

Statistics – GitHub Issues

September 2015 –
August 2016

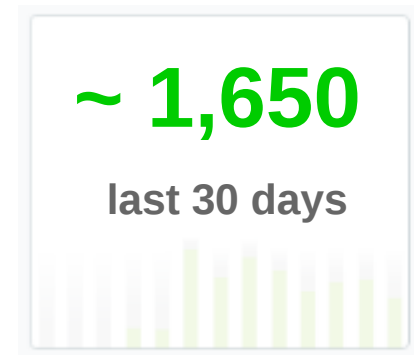
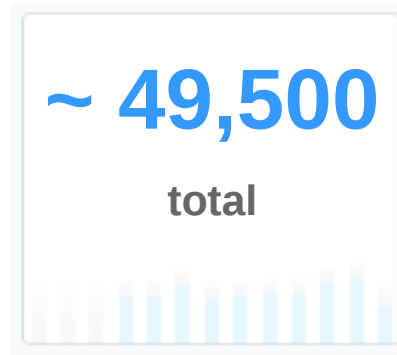


September 2016 –
August 2017

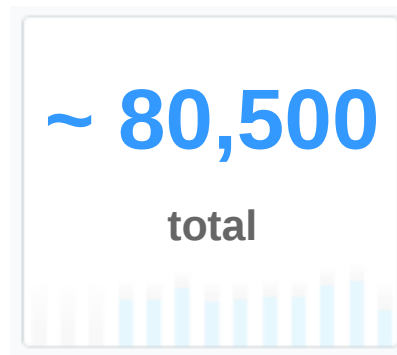


Statistics – Installations (Composer)

September 2016



September 2017



Source: <https://packagist.org/packages/mediawiki/semantic-media-wiki/stats>

Statistics – Installations (Composer) cont.

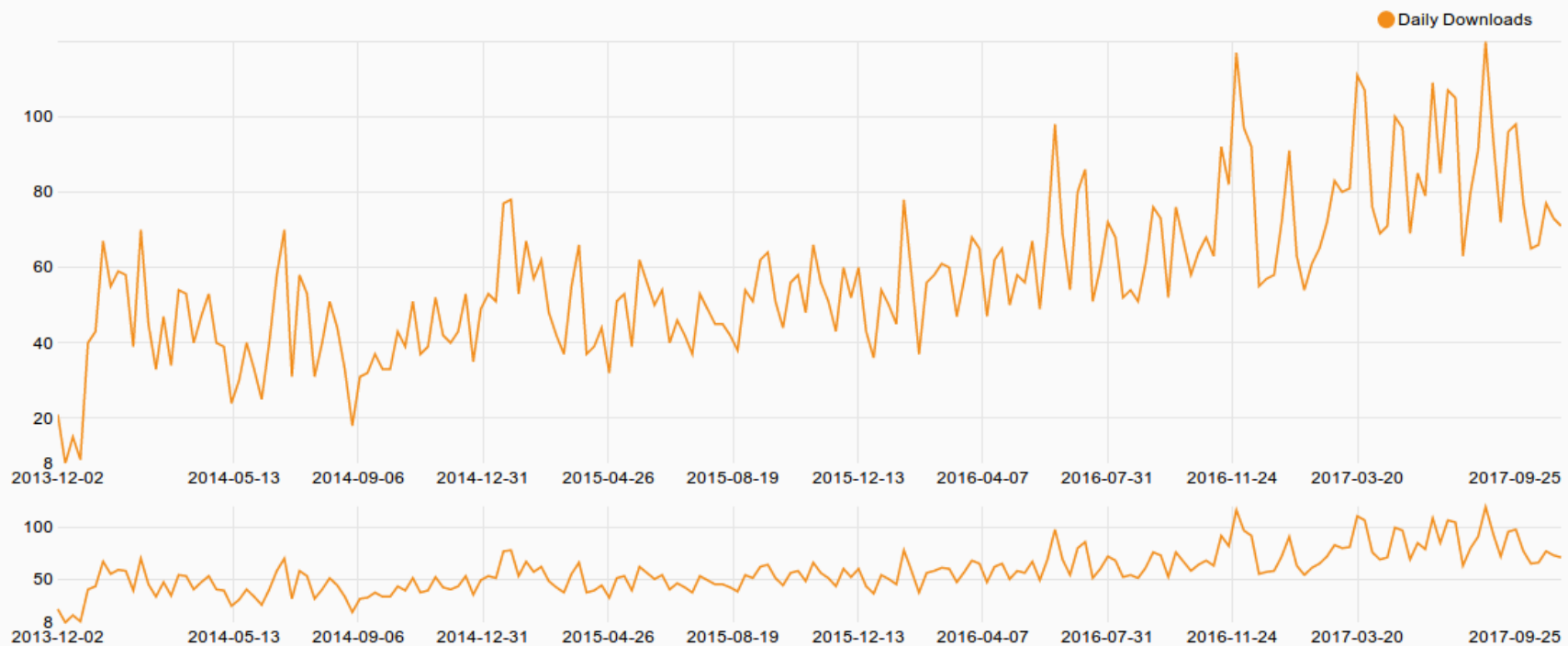
Installs

Overall 80 468

Last 30 days 2 335

Today 64
(since midnight, UTC)

Daily installs, averaged weekly



Daily installs per version, averaged weekly

Source: <https://packagist.org/packages/mediawiki/semantic-media-wiki/stats>

Status of the SMW project

→ Semantic MediaWiki

Semantic MediaWiki – Releases

→ Releases since SMWCon Fall 2016

- SMW 2.4.x – 5 releases

2.4.0, 2.4.1, 2.4.2, 2.4.3, 2.4.4, 2.4.5, 2.4.6

- SMW 2.5.x – 5 releases

2.5.0, 2.5.1, 2.5.2, 2.5.3, 2.5.4, 2.5.5?

Semantic MediaWiki

Statistics – GitHub Commits

July 2015 –
June 2016

1,558

commits

16

developers

July 2016 –
June 2017

987

commits

12

developers

Sources: <https://www.semantic-mediawiki.org>

Semantic MediaWiki Statistics

Codebase (Integration Testing)

September 2016 –
SMW 2.4

3,685

tests

12,014

assertions

September 2017 –
SMW 2.5

4,460

tests

14,855

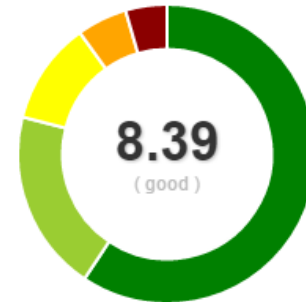
assertions

Source: <https://travis-ci.org/SemanticMediaWiki/SemanticMediaWiki>

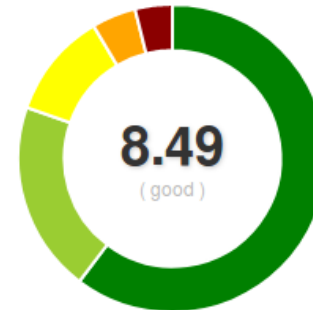
Semantic MediaWiki Statistics

Codebase (Quality)

September 2016 –
SMW 2.4



September 2017 –
SMW 2.5



Source: <https://scrutinizer-ci.com/g/SemanticMediaWiki/SemanticMediaWiki/>

Semantic MediaWiki Statistics

Codebase (Coverage)

✓ Pull Request #2732 Replace \$smwgQueryProfiler settings

🔗 Commit c6c25ec

#2732: Replace \$smwgQueryProfiler settings

🔗 Branch master

🔌 mwjames authored and committed

🔌 #8850 passed

🔄 Restart build

🕒 Ran for 21 min 35 sec

🕒 Total time 1 hr 34 min 22 sec

📅 about 8 hours ago

Build Jobs

✓ # 8850.1	🔌 </> PHP: 7.1	📦 DB=mysql; MW=REL1_29; PHPUNIT=5.7.*	🕒 6 min 33 sec	🔄
✓ # 8850.2	🔌 </> PHP: 5.5	📦 DB=mysql; MW=REL1_28; FUSEKI=2.4.0	🕒 12 min 14 sec	🔄
✓ # 8850.3	🔌 </> PHP: 5.6	📦 DB=mysql; MW=REL1_25; VIRTUOSO=6.1	🕒 9 min 2 sec	🔄
✓ # 8850.4	🔌 </> PHP: 5.5	📦 DB=sqlite; MW=REL1_27; SITEMLANG=ja	🕒 8 min 18 sec	🔄
✓ # 8850.5	🔌 </> PHP: 5.5	📦 DB=postgres; MW=REL1_26;	🕒 8 min 3 sec	🔄
✓ # 8850.6	🔌 </> PHP: 5.6	📦 DB=mysql; MW=REL1_26; BLAZEGRAPH=1.5.2; PHPUNIT=4.8.*	🕒 13 min 16 sec	🔄

Allowed Failures ?

✓ # 8850.7	🔌 </> PHP: 5.5	📦 DB=mysql; MW=REL1_23; SESAME=2.8.7	🕒 8 min 51 sec	🔄
✓ # 8850.8	🔌 </> PHP: hhvm-3.18	📦 DB=mysql; MW=REL1_25; TYPE=benchmark; PHPUNIT=5.7.*	🕒 5 min 36 sec	🔄

Sources: <https://travis-ci.org/SemanticMediaWiki/SemanticMediaWiki/builds/281859845>

Semantic MediaWiki

Current Status and Next Steps

New features in SMW 2.5

Semantic MediaWiki

Version 2.5 – Features

Short recap of the new features:

- Support for MySQL and SQLite's “native” full-text search on text and URI typed values including phrase matching
- Reference typed statements to record provenance metadata on individual value annotations

(record like: value - data - source)

- Edit protection via a special property
- Property chain support for printout statements as in

|?-Located in.Has population.Retrieved on

Reference

- 閲覧^p: 2016年8月20日 (土)
- 資料^p:
<https://en.wikipedia.org/w/index.php?title=Berlin&oldid=737446978>

人口^p 3,610,156 + 🔍




```
{{#ask: [[Category:City]]
|?Has population
|?Has population.Number
|?Has population.Date
}}
```

	Has population	Number	Date
Berlin	3,520,061 [≡]	3,520,061	2 septembre 2016


Semantic MediaWiki

Version 2.5 – Features

- Support for property labels in the user's language
- Support for links in values for datatype "Text" was extended and made stable
- Support for fixed properties was overhauled and made stable
- Special page "SemanticMediaWiki" formerly "SMWAdmin" was overhauled and enhanced
- Query result caching introduced to minimize impact of query processing during and after a page view.

Has coordinates	52° 30' 59", 13° 24' 0" 
Has number	0,22 
población	3.610.156 

Special page

Search Semantic MediaV 

Administrative functions

This special page helps you during installation, upgrade, maintenance and usage of [Semantic MediaWiki](#) and also provides further administrative functions and tasks as well as statistics. Remember to back up valuable data before executing administrative functions.

Getting support

Various resources are provided to help you in case of problems:

- If you experience problems with your installation, start by checking the guidelines in the [INSTALL file](#) and the [installation page](#).
- The complete user documentation to Semantic MediaWiki is at

Overview and support

 [Deprecation notices](#)

[Table and data rebuild](#)

[Supplementary functions](#)

[Registry](#)

Semantic MediaWiki

Current Status and Next Steps

What you can expect in SMW 3.0?

Semantic MediaWiki

Version 3.0 – Planned Features and Changes

→ Semantic MediaWiki 3.0 is planned to be released either in late Q4/2017 or Q1/2018

Some things will go:

- Support for PHP 5.5 and lower
- Support for MediaWiki 1.26 and lower
- Legacy namespace “Type” will be removed
- Special page “Semantic Statistics” will be removed
- Legacy maintenance script aliases will be removed

Semantic MediaWiki

Version 3.0 – Planned Features and Changes

New features and enhancements:

- Adds support for datatable views to result format “table” and “broadtable” using `|class=datatable`
- This comes with a direct result export button
- Adds support for query parameter `|+width=...` (similar to `|+align=...`)
- Adds support for marking an inline query as deferred (“last in line”) from regular parsing using query marker `|@deferred`
- Query marker “deferred” allows for query marker `|@control=slider`

Books

This table shows the books I have stored here:

Show entries Search: Export

title	author	year	ISBN	rating
Das Glasperlenspiel	Hermann Hesse	2015	978-3518463574	1
The Picture of Dorian Gray	Oscar Wilde	2015	978-1783293650	1
Venus in Furs	Leopold von Sacher-Masoch	2008	978-1604501292	3

[... more books](#)

Showing 1 to 3 of 3 entries

Previous Next

Books



This table shows the books I have stored here:

Show entries Search: Export

title	author	year	ISBN	rating
Das Glasperlenspiel	Hermann Hesse	2015	978-3518463574	1
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[... more books](#)

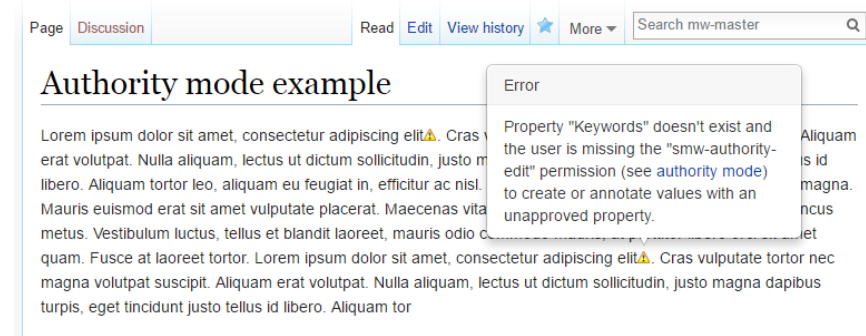
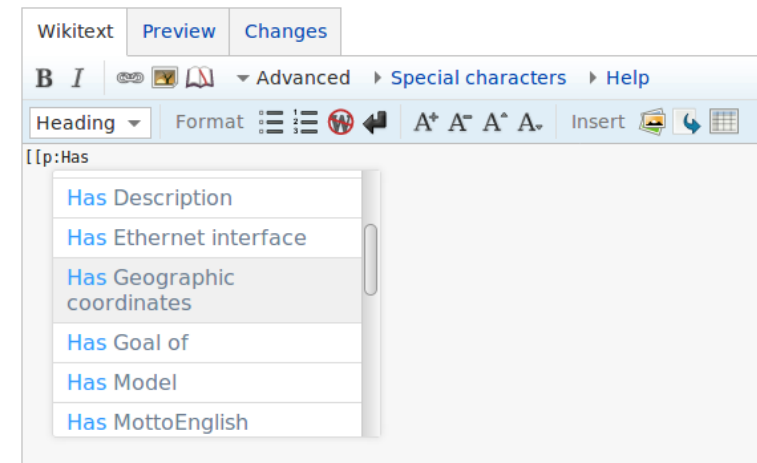
Showing 1 to 3 of 3 entries

Previous Next

Semantic MediaWiki

Version 3.0 – Planned Features and Changes

- Adds support for marking an inline query as part of an annotation using query marker |@annotation
- Added like: and nlike: comparator operators for approximate queries to use standard SQL syntax
- Adds support for input assistance (sug-gester) using [[c:, [[p: and [[con: which must be enabled by user. Works on text edit field, file upload field and in search field (→ SMWSearch).
- Introduces “Authority mode” tied to user group “SMW curator” to control property creation



Semantic MediaWiki

Version 3.0 – Planned Features and Changes

- Special page “Ask” was completely overhauled including going mobile
- Adds support for an individual hierarchy depth restriction for an inline query using query parameter `|+depth=...`
- Adds strip marker decoding to support data value annotations containing tags like `<pre>`, etc.
- Will probably add support for mandatory properties including parser function `#mandatory` for fine grained control on subject level
- And most probably many more ...

Special page Search Semantic MediaWiki

Semantic search [? Help](#)

[Options](#) [Search](#) [Empty](#)

Condition [?](#)

Printout selection

Format

Broad table (default)

For a detailed description, please visit the [Broad table \(default\) help page](#).

Options

source:

Alternative query source

limit:

The maximum number of results to return

offset:

The offset of the first result

Semantic MediaWiki

Current Status and Next Steps

How can you contribute?

Semantic MediaWiki

How can you contribute?

- Where are many ways to contribute
 - Create a quality feature requests (→ click here)
 - File quality bug reports on issues you encounter (→ click here)
 - Contribute code with tests, tests and tests (→ click here)
 - Become part of the testers group and test (→ click here)
 - Add or enhance documentation (→ click here)
 - Add or enhance translations (→ click here)

Semantic MediaWiki

How can you contribute?

- Where are many ways to contribute (cont.)
 - Answer questions and participate in discussions (→ [click here](#))
 - Provide input on following issues:
 - #1218 Support for Docker (→ [click here](#))
 - #2274 Support for ElasticSearch (→ [click here](#))
 - #2684 Support for VisualEditor (→ [click here](#))
 - Organize events (→ [click here](#))

Semantic MediaWiki

Current Status and Next Steps

Thank you!